

Memorandum

Date : March 10, 2004
Telephone: (916) 651-8853
File: Los Esteros 2

To: William J. Keese, Chairman
Arthur H. Rosenfeld, Ph.D., Commissioner
James D. Boyd, Commissioner
John L. Geesman, Commissioner
B. B. Blevins, Commissioner

From: California Energy Commission
1516 Ninth Street
Sacramento, CA 95814-5512

Subject: **LOS ESTEROS CRITICAL ENERGY FACILITY 2 DATA ADEQUACY
RECOMMENDATION (03-AFC-2)**

The Los Esteros Critical Energy Facility 2 (LECEF) Application for Certification (AFC) was filed by Los Esteros Critical Energy Facility, LLC, on December 30, 2003. In the AFC, the applicant seeks two actions: (1) recertify the current license for the existing 180 MW natural gas-fired simple cycle facility; and, (2) a new license for the conversion of the LECEF to a combined cycle plant, thereby adding 140 MW of capacity.

At the Business Meeting on February 4, 2004, the Energy Commission found the AFC to be deficient in 14 technical areas. Staff has subsequently reviewed supplemental information filed by Calpine on March 8, 2004 in response to the adopted list of data deficiencies. Based on staff's review, the AFC as supplemented now meets the requirements of California Code of Regulations, Title 20, section 1709 and Appendix B of chapter 5.

Attachment A contains a list of the 14 technical disciplines that were previously found to be inadequate but which are now adequate. Attachment B contains staff's detailed data adequacy worksheets that describe staff's findings for each information requirement in the 14 technical areas.

At the Energy Commission's business meeting on March 17, 2004, I will recommend that the Energy Commission accept the AFC, as supplemented, pursuant to California Code of Regulations, Title 20, section 1709. I will also recommend that the Energy Commission assign a Committee to oversee the 12-month review process. If you have any questions, please call Robert Worl, the Energy Commission's Project Manager, at (916) 651-8853.

ROBERT L. THERKELSEN
Executive Director

Attachments

ATTACHMENT A
OVERVIEW OF ENERGY COMMISSION STAFF'S
DATA ADEQUACY DETERMINATION
LOS ESTEROS CRITICAL ENERGY FACILITY 2
03-AFC-2

TECHNICAL AREA	ATTACHMENT B PAGE NO	ADEQUATE ?
AIR QUALITY	1	YES
BIOLOGICAL RESOURCES	6	YES
CULTURAL RESOURCES	12	YES
EFFICIENCY	15	YES
GEOLOGICAL HAZARDS	17	YES
NOISE	19	YES
PALEONTOLOGICAL RESOURCES	22	YES
PROJECT OVERVIEW	25	YES
RELIABILITY	28	YES
SOCIOECONOMICS	31	YES
SOILS	41	YES
TRANSMISSION SYSTEM ENGINEERING	44	YES
WATER RESOURCES	47	YES
WORKER SAFETY	53	YES

ATTACHMENT B

**ENERGY COMMISSION STAFF'S
Revised Data Adequacy Worksheets**

**Los Esteros Critical Energy Facility 2
03-AFC-2**

Adequacy Issue: Adequate **X** Inadequate **X**
 Technical Area: **Air Quality**
 Project Manager: Robert Worl

DATA ADEQUACY WORKSHEET
 Project: Los Esteros Critical Energy Facility 2
 Docket: 03-AFC-02

Revision No. 01 Date February 18, 2004
 Technical Staff: Gabriel D. Taylor
 Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	2.0 (pg. 2-1) 8.1.1 (pg. 8.1-1) 8.1.2 (pg. 8.1-10) 8.1.6.1 (pg. 8.1-65) 8.1.6.2 (pg. 8.1-70) Table 8.1-21 (pg. 8.1-23) Table 8.1-24 (pg. 8.1-25) Table 8.1-43 (pg. 8.1-44) Table 8.1-47 (pg. 8.1-48)	Yes	
Appendix B (g) (8) (A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.	"Application to the BAAQMD for a Determination of Compliance and Authority to Construct at the LECEF" & Letter from Dennis Jang (BAAQMD) to Mr. Robert Worl (CEC), February 9, 2004	No Yes	Please submit a District Completeness Letter. The BAAQMD received the application on January 14, 2004. According to District Rule 2-2-402, the district is allowed 15 working days (i.e. until February 5) to file a Completeness Letter.
Appendix B (g) (8) (B)	The heating value and chemical characteristics of the proposed fuels, the stack height and diameter, the exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility.	Table 8.1-11 (pg. 8.1-11) Table 8.1-A1-1 Table 8.1-A2-2 Table 8.1-B1-1 Table 8.1-36 (pg. 8.1-32)	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	8.1.2.4 (pg. 8.1-28) 8.1.3.4 (pg. 8.1-50) 8.1.6 (pg. 8.1-65) Table 8.1-57 (pg. 8.1-72)	Yes	
Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	8.1.2.2 (pg. 8.1-10) 8.1.3.2 (pg. 8.1-29) Table 8.1-A1-2 Table 8.1-A2-2	Yes	

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 Technical Area: **Air Quality** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Gabriel D. Taylor
 Project Manager: Robert Worl Docket: 03-AFC-02 Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (E)	The emission rates of criteria pollutants from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all secondary emission sources.	8.1.2.2 (pg. 8.1-10) 8.1.3.2 (pg. 8.1-29) Table 8.1-15 (pg. 8.1-13) Table 8.1-39 (pg. 8.1-34) Table 8.1-A1-2 Table 8.1-A2-2	Yes	
Appendix B (g) (8) (F)	A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.	Table 8.1-18 (pg. 8.1-15) Table 8.1-37 (pg. 8.1-32)	Yes	
Appendix B (g) (8) (G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary.	8.1.1.2 (pg. 8.1-3) Table 8.1-2 (pg. 8.1-6) through Table 8.1-8 (pg. 8.1-9) Figure 8.1-11 through Figure 8.1-22	Yes	
Appendix B (g) (8) (H)	One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district.	Table 8.1-wo CD-ROMs	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒
 Technical Area: **Air Quality**
 Project Manager: Robert Worl

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Revision No. 01 Date February 18, 2004
 Technical Staff: Gabriel D. Taylor
 Technical Senior: Keith Golden

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Appendix B (g) (8) (H) (i)	If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995), which is incorporated by reference in its entirety.)	N/A	-	
Appendix B (g) (8) (H) (ii)	The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.	8.1.1.1 (pg. 8.1-1) 8.1.1.2 (pg. 8.1-3) Table 8.1-wo CD-ROMs Figure 8.1-6a through Figure 8.1-10e	Yes	
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:	---	---	---
Appendix B (g) (8) (I) (i)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM ₁₀) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO _x), sulfur dioxide (SO ₂), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM ₁₀)] from construction-related equipment;	8.1.2.1 (pg. 8.1-10) 8.1.3.1 (pg. 8.1-28)	Yes	

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Appendix B (g) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert criteria pollutant (NO _x , SO ₂ , CO and PM ₁₀) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions; and	8.1.2.2 (pg. 8.1-10) 8.1.3.2 (pg. 8.1-29) Table 8.1-21 (pg. 8.1-23) Table 8.1-24 (pg. 8.1-25) Table 8.1-43 (pg. 8.1-44) Table 8.1-46 (pg. 8.1-47)	Yes	
Appendix B (g) (8) (I) (iii)	A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard.	Appendix 8.1-F1 Appendix 8.1-F2	Yes	
Appendix B (g) (8) (J)	If an emission offset strategy is proposed to mitigate the project's impacts under subsection (g)(1), provide the following information:	---	---	---
Appendix B (g) (8) (J) (i)	The quantity of offsets needed;	8.1.6.2 (pg. 8.1-70)	Yes	
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions; and	Table 8.1-58 (pg. 8.1-73) through Table 8.1-61 (pg. 8.1-75)	Yes	
Appendix B (g) (8) (J) (iii)	Method of emission reduction.	Table 8.1-58 (pg. 8.1-73) through Table 8.1-61 (pg. 8.1-75)	Yes	

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 Project Manager: Robert Worl Docket: 03-AFC-02 Technical Senior: Keith Golden

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Appendix B (g) (8) (K)	A topographic map containing contour and elevation data, at a scale of 1:24,000, showing the area within 6 miles of the power plant site.	Figure 8.1-1 (Large Format Map)	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.1-52 (pg. 8.1-60)	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 8.1-53 (pg. 8.1-65)	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	8.1.4 (pg. 8.1-50)	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.1-53 (pg. 8.1-65)	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 8.1-52 (pg. 8.1-60)	Yes	

Adequacy Issue: Adequate **X** Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3/3/2004

Technical Area: **Biological Resources**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Natasha Nelson

Project Manager: Robert Worl

Docket: 03-AFC-03

Technical Senior: Jim Brownell

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Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	<p><u>Existing site conditions:</u> Section 8.2.1, p. 8.2-1; Section 8.2.1.10, p. 8.2-15; and Tables 8.2-2 and 8.2-3, p. 8.2-16</p> <p><u>Construction impacts</u> (Direct, Indirect): Section 8.2.3.1, pp. 8.2-20 and 8.2-21</p> <p><u>Operation impacts:</u> (Direct, Indirect): Section 8.2.2.1, pp. 8.2-17 to 8.2-21; Section 8.2.3.2, pp. 8.2-21 and 8.2-22</p> <p><u>Maintenance impacts</u> (Direct, Indirect): Section 8.2.2.1, p. 8.2-20; Section 8.2.3.2, p. 8.2-22</p> <p><u>Cumulative impacts:</u> Section 8.2.5, p. 8.2-22; <u>AFC Supplement Data Adequacy Response 1</u></p> <p><u>Measures proposed to mitigate environmental impacts:</u> <u>None AFC Supplement Data Adequacy Response 2</u></p> <p><u>Effectiveness of mitigation proposals and plans to monitor for effectiveness:</u> None</p>	<p>No</p> <p>Yes</p>	<p>The applicant performed a source test of start-up emission and discovered that the estimate of emissions was incorrect in the original AFC. The estimate of emissions from start-up and shut down has nearly quadrupled (see Section 8.1, page 8.1-13). Phase 1 calculations of nitrogen emissions did not account for this large increase. The Phase 1 calculations by the applicant are still based only on baseload for 8760 hours without any accounting for start-up and shutdown hours. The Phase 1 nitrogen emission should be around 93 tons per year (TPY) not 74.9 TPY, or about 20% higher. Submit revised ISCST3 nitrogen deposition modeling scenarios using the worst case scenario (as defined in the original proceedings' Data Requests 147 to 149) for the following case studies:</p> <ol style="list-style-type: none"> 1. Maximum predicted emissions from Phase 1 operation 2. Actual emissions from the past 365 days of operation 3. Maximum predicted emissions from Phase 2. <p>Provide a comparison of the case studies and explain any differences in outcomes.</p>

Adequacy Issue: Adequate ☒ Inadequate ☒

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Appendix B (g) (13) (A)	A regional overview and discussion of biological resources, with particular attention to sensitive biological resources near the project, and a map at a scale of 1:100,000 (or some other suitable scale) showing their location in relation to the project.	Section 8.2.1, pp. 8.2-1 to 8.2-3; Figures 8.2-1, 8.2-3 and 8.2-3	Yes	
Appendix B (g) (13) (B)	A discussion and detailed maps at a scale of 1:6,000, of the biological resources at the site of the proposed project and related facilities, and in areas adjacent to them, out to a mile from the site and 1000 feet from the outer edge of linear facility corridors. Include a list of the species actually observed and those with a potential to occur. The discussion and maps shall address the distribution of community types, denning or nesting sites, population concentrations, migration corridors, breeding habitats, and the presence of sensitive biological resources.	<p><u>Discussion and Map:</u> Section 8.2.1.10, pp. 8.2-15 to 8.2-16; Figure 8.2-3 Version 2 at 1:6000 (this map was submitted to staff separately)</p> <p><u>List of species observed:</u> Tables 8.2-2 and 8.2-3, p. 8.2-16</p> <p><u>List of potentially occurring species:</u> Table 8.2-1, pp. 8.2-5 to 8.2-12; Volume II: Appendix 8.2-B</p>	Yes	
Appendix B (g) (13) (C)	A description of all studies and surveys used to provide biological information about the project site, including seasonal surveys and copies of the California Department of Fish and Game's Natural Diversity Data Base Survey Forms, "California Native Species Field Survey Forms", and "California Natural Community Field Survey Forms", completed by the applicant. Include the dates and duration of the studies, methods used to complete the studies, and the names and qualifications of individuals conducting the studies.	<p><u>Description of surveys:</u> Section 8.2.1.9, pp. 8.2-14 to 8.2-15.</p> <p><u>Survey Forms:</u> Volume II: Appendix 8.2-B Appendix 8.2-C</p> <p><u>Names/qualifications:</u> Volume II: Appendix 8.2-A</p>	Yes	

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Appendix B (g) (13) (D)	A discussion of all permanent and temporary impacts to biological resources from site preparation, construction activities, and plant operation. Discussion of impacts must consider impacts from cooling tower drift, and from the use and discharge of water during construction and operation. For facilities which use once-through cooling or take or discharge water directly from or to natural sources, discuss impacts resulting from entrainment, impingement, thermal discharge, effluent chemicals, type of pump (if applicable), temperature, volume and rate of flow at intake and discharge location, and plume configuration in receiving water.	<u>Permanent and Temporary Impacts:</u> Sections 8.2.2 and 8.2.3, pp. 8.2-16 to 8.2-22 <u>Cooling Tower Drift:</u> Section 8.2.2.1, p. 8.2-17 Section 8.2.3.2, p. 8.2-21 <u>Use and Discharge of water:</u> Section 8.2.2.1, p. 8.2-18 Section 8.2.3.2, p. 8.2-21 <u>Once-through cooling discussion:</u> Not Applicable	Yes	
Appendix B (g) (13) (E)	A discussion of the following:			
Appendix B (g) (13) (E) (i)	All measures proposed to avoid and/or reduce any adverse impacts;	Section 8.2.4, p. 8.2-22; <u>AFC Supplement Data Adequacy Response 2</u>	No Yes	In the original proceeding, the operation and closure of LECEF required mitigation measures in order to reduce impacts to less than significant levels. The applicant should submit a discussion of measures that apply to the operation and closure of the Phase 1 continued operation. The applicant should propose any new measures that may be required as a result of the proposed changes in Phase 1 operation [see Appendix B (g) (1)] or Phase 2 construction and operation.
Appendix B (g) (13) (E) (ii)	All measures proposed to mitigate any adverse impacts, including any proposals for off-site mitigation; and	None <u>AFC Supplement Data Adequacy Responses 2 and 3</u>	No Yes	
Appendix B (g) (13) (E) (iii)	Any educational programs proposed to enhance employee awareness in order to protect biological resources.	None <u>AFC Supplement Data Adequacy Responses 2 and 4</u>	No Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

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Project: Los Esteros Critical Energy Facility 2

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Project Manager: Robert Worl

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Appendix B (g) (13) (F)	A discussion of compliance and monitoring programs proposed to ensure the effectiveness of mitigation measures incorporated into the project.	<u>AFC Supplement Data Adequacy Response 5</u>	No Yes	
Appendix B (g) (13) (G)	A discussion of native fish and wildlife species of commercial and/or recreational value that cobpctd by the project.	Section 8.2.1.8, p. 8.2-14	Yes	
Appendix B (g) (13) (H)	For purposes of this section, sensitive biological resources are one of the following:			
Appendix B (g) (13) (H) (i)	Species listed under state or federal Endangered Species Acts;	Section 8.2.1.6, pp. 8.2-3, 8.2-4, and 8.2-13; Table 8.2.1, pp. 8.2-5 to 8.2-12	Yes	
Appendix B (g) (13) (H) (ii)	Resources defined in sections 1702 (q) and (v) of Title 20 of the California Code of Regulations and	<u>Areas of critical concern:</u> Sections 8.2.1.3 and 8.2.1.4, p. 8.2-3 <u>Species of special concern:</u> Section 8.2.1.6, pp. 8.2-3, 8.2-4, and 8.2-13; Section 8.2.1.7, p. 8.2-14; Table 8.2.1, pp. 8.2-5 to 8.2-12	Yes	
Appendix B (g) (13) (H) (iii)	Species or habitats identified by legislative acts as requiring protection.	Table 8.2.1, pp. 8.2-5 to 8.2-12	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.2-4, pp. 8.2-24 to 8.2-26; <u>AFC Supplement Data Adequacy Response 6 ; Table 8.2-S1</u>	No Yes	Submit a revised Table 8.2-4 which includes reference to page numbers (section numbers can be accepted) in the application wherein conformance is discussed. This may require inserting discussion into the text which will be covered by the applicant's response to subsection (h) (2).

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Project Manager: Robert Worl

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Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 8.2-4, pp. 5.2-24 to 8.2-26	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 8.2.6, p. 8.2-22; <u>AFC Supplement Data Adequacy Responses 2 and 7; Table 8.2-S1</u>	No <u>Yes</u>	Section 8.2.6 states the applicant has taken measures to mitigate impacts (p. 8.2-22), but Section 8.2.4 says no measures are required (p. 8.2-22). However, Table 8.2-4 stated the applicant is in compliance with the Federal Endangered Species Act because of "avoidance". Submit a discussion of the mitigation and avoidance measures that are proposed by the applicant for Phase 1 continued operation and the mitigation and any avoidance measures that are proposed for Phase 2. Submit revisions to Table 8.2-4 as needed.
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.2-4, p. 8.2-24; <u>AFC Supplement Data Adequacy Response 8; Table 8.2-S1</u>	No <u>Yes</u>	Provide the title and address of the individuals identified as agency contacts.

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Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 8.2.7, p. 8.2-23; AFC Supplement Data Adequacy Response 9	No <u>Yes</u>	<p>There is no discussion of the applicant's initial steps to contact U.S. Fish and Wildlife Service (USFWS) regarding a permit to continue operations of Phase 1 for more than the 3 years with different nitrogen emission parameters nor for a permit to increase nitrogen emissions in Phase 2. The USFWS has jurisdiction through Section 9 of the Federal Endangered Species Act which prohibits "take" of endangered species without a proper permit. Please provide a record of conversation(s) from a recent meeting(s) or e-mail exchanges with the USFWS regarding Phase 1's continued operation and Phase 2 construction and operation. Provide a schedule to obtain a permit from USFWS, if required.</p> <p>The AFC states a PSD is not required. Staff's Phase 2 emissions calculation is greater than 100 TPY (1105.6 lbs/day * 365 days * 2000 lbs/ton = 100.8 TPY) which would qualify the project for PSD permit review and because this is a federal permit, possible consultation with the USFWS. Submit a discussion of how operation's maximum yearly emissions will be kept below 100 TPY in perpetuity (without variance). Provide documentation of any discussions with or between BAAQMD and the USFWS on the increased nitrogen emissions issue.</p>

Adequacy Issue: Adequate **X** Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 1 Date March 1, 2004

Technical Area: **Cultural Resources** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Al Schwitalla; Dorothy Torres, Gary Reinoehl

Project Manager: Robert Worl Docket: 03-AFC-02 Technical Senior: Dale Edwards

SITING REGULATIONS	Information	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Vol I, Pages 2.2 to 2.29 Vol I, Page 8.3-10 Vol I, Pages 8.3-10 to 8.3-13 Vol1, Pages 8.3-12 to 8.3-13	Yes	
Appendix B (g) (2) (A)	A brief summary of the ethnology, prehistory, and history of the region in which the project site and related facilities are located and maps at a scale of 1:24,000, indicating areas of ethnographic occupation. The region may vary depending on the extent of the territory occupied or used by prehistoric cultures indigenous to the area in which the project is located.	Vol I, Pages 8.3-1 to 8.3-6 <u>Figure 8.3-S1.</u>	No <u>Yes</u>	Please add ethnographic territories to Figure 8.3-1.
Appendix B (g) (2) (B)	A description of all literature searches and field surveys used to provide information about known cultural resources in the project vicinity. If survey records of the area potentially physically affected by the project are not available, and the area has the potential for containing significant cultural resources, the applicant shall submit a new or revised survey for any portion of the area lacking comprehensive survey data. A discussion of the dates of the surveys, methods used in completing the surveys, and the identification and qualification of the individuals conducting the surveys shall be included.	Vol I, Pages 8.3-6 to 8.3-10, <u>and Figure 8.3-S2.</u>	No <u>Yes</u>	As agreed, please provide a site map 1/2 inch = 500 feet, that depicts the Phase 2 construction and laydown areas, in relation to the existing Phase 1 LECEF facility. Include the 13 acre construction laydown area to the south of the existing facility. Please add the location of any previously identified cultural resources. (Submit under confidential cover, if necessary).

Adequacy Issue: Adequate **X** Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 1 Date March 1, 2004

Technical Area: **Cultural Resources** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Al Schwitalla; Dorothy Torres, Gary Reinoehl

Project Manager: Robert Worl Docket: 03-AFC-02 Technical Senior: Dale Edwards

SITING REGULATIONS	Information	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C)	A discussion of the sensitivity of the project area described in subsection (g)(2)(A) and the presence and significance of any known archeological sites and other cultural resources that may be affected by the project. Information on the specific location of archeological resources shall be included in a separate appendix to the application and submitted to the Commission under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq.	Vol I, Page 8.3-4.	Yes	
Appendix B (g) (2) (D)	A summary of contacts and communications with, and responses from, Native American representatives who may have an interest in heritage lands and/or resources potentially affected by the proposed project.	Vol I, Page 8.3-9. Vol II, Appendix 8.3, <u>and Attachment 8.3-S1</u>	No <u>Yes</u>	Please provide copies of letters sent to and any responses from Native American representatives who may have an interest in heritage lands.
Appendix B (g) (2) (E)	In the discussion on mitigation and monitoring prepared pursuant to subsection (g)(1), a discussion of any educational programs proposed to enhance awareness of potential impacts to archeological resources by employees and contractors, measures proposed for mitigation of impacts to known cultural resources, and a set of contingency measures for mitigation of potential impacts to previously unknown cultural resources.	Vol I, Pages 8.3-10 to 8.3-13.	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

DATA ADEQUACY WORKSHEET

Revision No. 1 Date March 1, 2004

Technical Area: **Cultural Resources**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Al Schwitalla; Dorothy Torres, Gary Reinoehl

Project Manager: Robert Worl

Docket: 03-AFC-02

Technical Senior: Dale Edwards

SITING REGULATIONS	Information	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Vol I, Pages 8.3-13 to 8.3-16. Section 8.3.6	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Vol I, Pages 8.3-16.	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Vol I, Pages 8.3-13 to 8.3-17	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Vol I, Page 8.3-16. Table 8.3-2.	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Vol, Page 8.3-16. to 8.3-17	Yes	

Adequacy Issue: Adequate **X** Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 1 Date March 8, 2004
 Technical Area: **Efficiency** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Shahab Khoshmashrab
 Project Manager: Robert Worl Docket: 03-AFC-2 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 1.4, 1.6.4, 2.3.3, 2.7.1, 9.0, 10.3; Figure 2.4-4	Yes	
Appendix B (i) (4) (A)	Heat and mass balance diagrams for design conditions for each mode of operation.	<u>March 2004 Supplement, Figure 2.4-S1</u>	No Yes	Please provide the numerical values that are missing from Figure 2.4-4. Also, state net plant heat rate in Btu/kWh for each mode of operation.
Appendix B (i) (4) (B)	Annual fuel consumption in BTUs for each mode of operation.	§§ 2.3.3, 10.3	Yes	
Appendix B (i) (4) (C)	Annual net electrical energy produced in MWh for each mode of operation.	§ 10.3	Yes	
Appendix B (i) (4) (D)	Number of hours the plant will be operated in each mode of operation in each year.	§§ 2.7.1, 10.3	Yes	
Appendix B (i) (4) (E)	If the project will be a cogeneration facility, calculations showing compliance with applicable efficiency and operating standards.	N/A	N/A	
Appendix B (i) (4) (F)	A discussion of alternative generating technologies available for the project, including the projected efficiency of each, and an explanation why the chosen equipment was selected over these alternatives.	§§ 1.4, 1.6.4, 9.0	Yes	

Adequacy Issue: Adequate **X** Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 1 Date March 8, 2004
 Technical Area: **Efficiency** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Shahab Khoshmashrab
 Project Manager: Robert Worl Docket: 03-AFC-2 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	N/A	N/A	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	N/A	N/A	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	N/A	N/A	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	N/A	N/A	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	

Adequacy Issue: Adequate ☒ Inadequate ☒

DATA ADEQUACY WORKSHEET

Revision No. 1 Date March 1, 2004

Technical Area: **Geological Hazards**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Patrick A. Pilling, Ph.D.

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Lynn Alexander

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pages 8.4-1 to 8.4-6; Sections 8.4.1 to 8.4.4	Yes	
Appendix B (g) (17) (A)	A summary of the geology, seismicity, and geologic resources of the project site and related facilities;	Pages 8.4-1 to 8.4-4; Section 8.4.1	Yes	
Appendix B (g) (17) (B)	A map at a scale of 1:24,000 and description of all recognized stratigraphic units, geologic structures, and geomorphic features within 2 miles of the project site. Include an analysis of the likelihood of ground rupture, seismic shaking, mass wasting and slope stability, liquefaction, subsidence, and expansion or collapse of soil structures.	Pages 8.4-1 to 8.4-4; Section 8.4.1 and Figure 8.4-1 and page S-26, Section 8.4-1, Figure 8.4-S1 (Data Responses)	No <u>Yes</u>	Phase 2: Geologic map should be drafted and presented in a scale of 1:24000 and with a radius of at least 2 miles from the project site
Appendix B (g) (17) (C)	A map and description of geologic resources of recreational, commercial, or scientific value which may be affected by the project. Include a discussion of the techniques used to identify and evaluate these resources.	Page 8.4-4; Section 8.4.1.5 and Page S-23, Section 8.4-2 (Data Responses)	No <u>Yes</u>	Phase 2: Provide a discussion of the techniques used to identify and evaluate potential geologic resources.

Adequacy Issue: Adequate ☒ Inadequate ☒ **DATA ADEQUACY WORKSHEET** Revision No. 1 Date March 1, 2004

Technical Area: Geological Hazards Project: Los Esteros Critical Energy Facility 2 Technical Staff: Patrick A. Pilling, Ph.D.

Project Manager: Robert Worl Docket: 03-AFC-2 Technical Senior: Lynn Alexander

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Page 8.4.6; Section 8.4.5 A table identifying applicable LORS is provided in Table 8.4-S1 (Data Responses).	No <u>Yes</u>	Phase 2: Provide a table identifying applicable project-related LORS and referencing specific AFC pages.
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Page 8.4-6; Section 8.4.6; Table 8.4-2 and Page S-24, Table 8.4-S2, Section 8.4-4 (Data Responses)	No <u>Yes</u>	Phase 2: Please provide specific jurisdiction information for each contact.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Page 8.4-6; Section 8.4.6 and Page S-24, Section 8.4-5 (Data Responses)	No <u>Yes</u>	Phase 2: Describe how the proposed project will confirm with applicable LORS. A discussion of the conformity of the project with applicable LORS is provided in the data responses.
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Page 8.4-6; Section 8.4.6; Table 8.4-2	<u>Yes</u>	

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date March 8, 2004

Technical Area: **Noise**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Steve Baker

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 1.1, 1.2, 2.2, 2.3.1.2, 2.3.3, 2.3.9, 2.3.10, 2.4, 2.4.9; Chapter 8.7; Appendix 8.7; March 2004 Supplement, p. S-27	No <u>Yes</u>	Under the topic of projected construction noise impacts, please estimate and evaluate the magnitude and impact of steam blow noise on sensitive receptors.
Appendix B (g) (4) (A)	A land use map which identifies residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important attribute of the environment within the area impacted by the proposed project. The area impacted by the proposed project is that area where there is a potential increase of 5 dB(A) or more, during either construction or operation, over existing background levels.	Figure 8.7-1	Yes	
Appendix B (g) (4) (B)	A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provide a representative characterization of the ambient noise levels in the project vicinity, and a discussion of the general atmospheric conditions, including temperature, humidity, and the presence of wind and rain at the time of the measurements. The existing noise levels shall be determined by taking noise measurements for a minimum of 25 consecutive hours at a minimum of one site. Other sites may be monitored for duration at the applicant's discretion during the same 25-hour period. The results of the noise level measurements shall be reported in L _{eq} (equivalent sound or noise level), L _{dn} (day-night sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The L ₁₀ , L ₅₀ , and L ₉₀ values (noise levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported.	§ 8.7.2.1; Tables 8.7-3, 8.7-4; § 8.7.2.4; Tables 8.7-5, 8.7-6; § 8.7.3.1; Figures 8.7-2 thru 8.7-5; Appendices 8.7-A, 8.7-B	Yes	

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date March 8, 2004

Technical Area: **Noise**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Steve Baker

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (4) (C)	A description of the major noise sources of the project, including the range of noise levels and the tonal and frequency characteristics of the noise emitted.	§§ 8.7.2.4, 8.7.4.2; Tables 8.7-10, 8.7-11; Appendix 8.7-C	Yes	
Appendix B (g) (4) (D)	An estimate of the project noise levels, during both construction and operation, at residences, hospitals, libraries, schools, places of worship or other facilities where quiet is an important attribute of the environment, within the area impacted by the proposed project.	§§ 8.7.3, 8.7.4; Tables 8.7-6, 8.7-7, 8.7-8, 8.7-9, 8.7-10, 8.7-11; <u>March 2004 Supplement, p. S-27</u>	No <u>Yes</u>	Under the topic of projected construction noise impacts, please estimate and evaluate the magnitude and impact of noise from steam blows on sensitive receptors.
Appendix B (g) (4) (E)	An estimate of the project noise levels within the project site boundary during both construction and operation and the impact to the workers at the site due to the estimated noise levels.	Tables 8.7-7, 8.7-9	Yes	
Appendix B (g) (4) (F)	The audible noise from existing switchyards and overhead transmission lines that would be affected by the project and estimates of the future audible noise levels that would result from existing and proposed switchyards and transmission lines. Noise levels shall be calculated at the property boundary for switchyards and at the edge of the rights-of-way for transmission lines.	N/A	N/A	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	§ 8.7.7.2; Table 8.7-13	Yes	

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date March 8, 2004

Technical Area: **Noise**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Steve Baker

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 8.7-14	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	§§ 8.7.2.2, 8.7.2.4, 8.7.3, 8.7.4	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.7-14	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	§ 8.7.7.3	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

DATA ADEQUACY WORKSHEET

Revision No. 1 Date March 1, 2004

Technical Area: Paleontological Resources

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Patrick A. Pilling, Ph.D.

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Lynn Alexander

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pages 8.8-1 to 8.8-11; Sections 8.8.1 to 8.8.5	Yes	
Appendix B (g) (16) (A)	Identification of the physiographic province and a brief summary of the geologic setting, formations, and stratigraphy of the project area. The area may vary depending on the depositional history of the area.	Pages 8.8-1 to 8.8-9; Sections 8.8.1	Yes	
Appendix B (g) (16) (B)	A discussion of the sensitivity of the project area described in subsection (g)(16)(A) and the presence and significance of any known paleontologic localities or other paleontologic resources within or adjacent to the project.	Pages 8.8-2 to 8.8-10; Sections 8.8.1.3 to 8.8.1.5	Yes	
Appendix B (g) (16) (C)	A summary of all literature searches and field surveys used to provide information about paleontologic resources in the project area described in subsection (g)(16)(A). Identify the dates of the surveys, methods used in completing the surveys, and the names and qualifications of the individuals conducting the surveys.	Pages 8.8-2 to 8.8-10; Section 8.8.1.3 to 8.8.1.5	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

DATA ADEQUACY WORKSHEET

Revision No. 1 Date March 1, 2004

Technical Area: Paleontological Resources

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Patrick A. Pilling, Ph.D.

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Lynn Alexander

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (16) (D)	Information on the specific location of known paleontologic resources, survey reports, locality records, and maps at a scale of 1:24,000, shall be included in a separate appendix to the Application and submitted to the Commission under a request for confidentiality, pursuant to Title 20, California Code of Regulations, § 2501 et seq.	Page S-28, Section 8.8-1 (Data Responses) A paleontological resources (confidential) map is referenced in the Phase I AFC as stated in the data responses	No <u>Yes</u>	Phase 2: Please provide a paleontological resources (confidential) map at a scale of 1:24000, showing all known nearby paleontological resource sites.
Appendix B (g) (16) (E)	A discussion of any educational programs proposed to enhance awareness of potential impacts to paleontological resources by employees, measures proposed for mitigation of impacts to known paleontologic resources, and a set of contingency measures for mitigation of potential impacts to currently unknown paleontologic resources.	Page 8.8-10 to 8.8-11; Section 8.8.5	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Page 8.8-12; Section 8.8.6.2; Table 8.8-2	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒ **DATA ADEQUACY WORKSHEET** Revision No. 1 Date March 1, 2004

Technical Area: Paleontological Resources Project: Los Esteros Critical Energy Facility 2 Technical Staff: Patrick A. Pilling, Ph.D.

Project Manager: Robert Worl Docket: 03-AFC-2 Technical Senior: Lynn Alexander

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.		N/A	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pages 8.8-11 to 8.8-12; Section 8.8.6	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.		N/A	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.		N/A	

Adequacy Issue: Adequate **X** Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 01 Date 3/2/04

Technical Area: **Project Overview**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Robert Worl

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Cal. Code Regs., tit. 20, § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.		NA	See Each Technical Section for Adequacy of This Item
Cal. Code Regs., tit. 20, § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and		NA	See Each Technical Section for Adequacy of This Item
Cal. Code Regs., tit. 20, § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference		NA	See Each Technical Section for Adequacy of This Item
Cal. Code Regs., tit. 20, § 1704, (a) (4)	Each principal subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation.	Chapter 8.0 Sections 8.1 through 8.16	Yes	
Appendix B (a) (1) (A)	A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities, fuel characteristics, fuel supply, water supply, pollution control systems, and other general characteristics.	Chapters 1.0 and 2.0	Yes	
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessors parcel numbers.	Page 2-1, Chapter 2.0	Yes	
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Page 1-1, 1-2, Figures 1.1-1 and 1.1-2 Chapter 1.0	Yes	

Adequacy Issue: Adequate **X** Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 01 Date 3/2/04

Technical Area: **Project Overview**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Robert Worl

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (1) (D)	A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.	Figures 1.1-3 and 1.1-4 Chapter 1.0	Yes	
Appendix B (a) (1) (E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities.	Appendix 1 AFC Volume II	Yes	
Appendix B (a) (2)	Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	Page 1-6, Section 1.2 Chapter 1.0	Yes	
Appendix B (a) (3) (A)	A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities.	Page 1-6, Section 1.3 Chapter 1.0	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Pages 1-2, 1-5, 1-6 Chapter 1.0, and, Pages 2-9, 2-13, 2-20 Chapter 2.0	Yes	
Appendix B (a) (3) (C)	A description of the legal relationship between the applicant and each of the persons or entities specified in subsections (a)(3)(A) and (B).	Page 1-1, and 1-6, Chapter 1.0	Yes	

Adequacy Issue: Adequate **X** Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 01 Date 3/2/04

Technical Area: **Project Overview**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Robert Worl

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (A)	Maps at a scale of 1:24,000 (1" = 2000'), along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities;	Figures 2.3-1, 2.4-1 and Figs 8.6-1 through 8.6-3; Appendices 1-A, and 8.6-A AFC Supplement, Fig. 1.1-S1 (revised AFC Fig. 1.1-2)	No <u>Yes</u>	Maps at 1:24,000 (1" = 2,000') scale with information satisfying Appendix B(b)(1)(A) requirements
Appendix B (b) (1) (B)	Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities;	Figure 2.4-2, Chapter 2.0	Yes	
Appendix B (b) (1) (C)	A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and	Pages 2-1 through 2-29 Chapter 2.0	Yes	
Appendix B (b) (2) (A)	Maps at a scale of 1:24,000 of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s).	Figures 1.1-2 and Figures 8.6-1, 8.6-2, and 8.6-3. AFC Supplement, Fig. 1.1-S1 (revised AFC Fig. 1.1-2)	No <u>Yes</u>	Maps at 1:24,000 (1" = 2,000') scale with information satisfying Appendix B(b)(2)(A) requirements
Appendix B (b) (2) (B)	A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction.	Figures 1.1-3, 1.1-4, Chapter 1.0	Yes	
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Chapter 4.0	Yes	

Adequacy Issue: Adequate **X** Inadequate _____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date March 8, 2004

Technical Area: **Reliability**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Shahab Khoshmashrab

Project Manager: Bob Worl

Docket: 03-AFC-2

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 1.1, 2.1, 2.3, 2.3.1, 2.3.3, 2.3.4, 2.3.5, 2.3.6, 2.3.8, 2.4, 2.4.1, 2.4.3, 2.4.4, 2.4.5, 2.4.6, 2.4.8, 2.6, 2.7.2, 2.7.3, 2.7.4, 2.7.5, 6.0, 7.0, 8.1, 8.4, 8.14, 8.15, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.4	Yes	
Appendix B (i) (3) (A)	A discussion of the sources and availability of the fuel or fuels to be used over the estimated service life of the facilities.	§§ 1.1, 2.3, 2.3.3, 2.4.3, 2.7.3, 6.0, 10.2.1	Yes	
Appendix B (i) (3) (B)	A discussion of the anticipated service life and degree of reliability expected to be achieved by the proposed facilities based on a consideration of:	—	—	
Appendix B (i) (3) (B) (i)	Expected annual and lifetime capacity factors;	§§ 10.2.2	Yes	
Appendix B (i) (3) (B) (ii)	The demonstrated or anticipated feasibility of the technologies, systems, components, and measures proposed to be employed in the facilities, including the power generation system, the heat dissipation system, the water supply system, the reinjection system, the atmospheric emission control system, resource conveyance lines, and the waste disposal system;	§§ 1.1, 2.1, 2.3, 2.3.1, 2.3.4, 2.3.5, 2.3.6, 2.3.8, 2.4, 2.4.1, 2.4.5, 2.4.6, 2.4.8, 7.0, 8.1, 8.14, 10.2.4	Yes	
Appendix B (i) (3) (B) (iii)	Geologic and flood hazards, meteorologic conditions and climatic extremes, and cooling water availability;	§§ 1.1, 2.3, 2.3.4, 2.4.4, 2.6, 2.7.2, 2.7.4, 7.0, 8.4, 8.15, 10.2.3; Appendix 7-A	Yes	

Adequacy Issue: Adequate **X** Inadequate _____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date March 8, 2004

Technical Area: **Reliability**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Shahab Khoshmashrab

Project Manager: Bob Worl

Docket: 03-AFC-2

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (3) (B) (iv)	Special design features adopted by the applicant or resource supplier to ensure power plant reliability; and	§§ 2.7.2, 2.7.5, 10.2	Yes	
Appendix B (i) (3) (B) (v)	The expected power plant maturation period.	Not Found March 2004 Supplement, p S-3	No <u>Yes</u>	Please describe the maturation period. For mature technologies, this may amount to the startup period.
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	N/A	N/A	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	N/A	N/A	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	N/A	N/A	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	N/A	N/A	

Adequacy Issue: Adequate **X** Inadequate _____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date March 8, 2004

Technical Area: **Reliability**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Shahab Khoshmashrab

Project Manager: Bob Worl

Docket: 03-AFC-2

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	

Adequacy Issue: Adequate **x** Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3/3/04

Technical Area: **Socioeconomics**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 03-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	<p>8.10.1 Affected Environment, page 8.10-1.</p> <p>8.10.3.1 Construction Impacts, Impacts to the Economy, page 8.10-11. Fiscal Impacts, page 8.10-13.</p> <p>8.10.3.2 Operational Impacts, Impacts to the Economy, pages 8.10-13&14. Fiscal Impacts, pages 8.10-14&15.</p> <p>8.10.4 Cumulative Impacts, page 8.10-15.</p> <p><u>Data Adequacy Supplement, Socioeconomics Question 1, pages S-29 to 30.</u></p>	<p>No</p> <p><u>Yes</u></p>	<p>Please estimate the secondary (indirect and induced) income and employment economic impacts for construction and operation of the power plant. Show the income and employment multipliers e.g., Type I, Type II, or Type III as appropriate and how they are calculated. Delineate and explain the rationale for the region used in the economic impact estimates. To the extent possible for these and all economic estimates, indicate the year all economic estimates were made.</p> <p>Please estimate the cumulative impacts by discussing the projects, workforce numbers and dates of construction and operation. Also, indicate if any major projects are planned near the power plant, associated pipelines (e.g. water) or electrical transmission lines.</p> <p>1. Please indicate what year the economic estimates are for.</p> <p>2. Please estimate secondary impacts (indirect and induced) for construction and operation phases using a type II or type III multiplier b. identify the economic model used (IMPLAN, REMI etc.).</p>

Adequacy Issue: Adequate **x** Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3/3/04

Technical Area: **Socioeconomics**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 03-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A)	A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include:			
Appendix B (g) (7) (A) (i)	The economic characteristics, including the economic base, fiscal resources, and a list of the applicable local agencies with taxing powers and their most recent and projected revenues;	8.10.1.3 Economy and Employment, pages 8.10-2 to 4. Table 8.10-4 Employment distribution in the San Jose MSA, 1995 and 2000, page 8.10-3. Table 8.10-5. Santa Clara employment data, November 2003 (average), page 8.10-4.	No Yes	Please provide an estimate of projected revenue.

Adequacy Issue: Adequate **x** Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3/3/04

Technical Area: **Socioeconomics**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 03-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	8.10.1.1 Population, pages 8.10-1&8.10-2. Table 8.10-1. Historical and projected populations, page 8.10-2. Table 8.10-2 Historical and projected annual compounded population growth rates, page 8.10-2. 8.10.5 Environmental Justice, pages 8.10-15&16.	Yes	
Appendix B (g) (7) (A) (iii)	Existing and projected unemployment rates;	Table 8.10-5. Santa Clara County employment data, November 2003 (average), page 8.10-4. 8.10.1.3 Economy and Employment, page 8.10-3.	Yes	

Adequacy Issue: Adequate **x** Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3/3/04

Technical Area: **Socioeconomics**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 03-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	Table 8.10-7. Available labor by skill in Santa Clara County, 1997 to 2004, page 8.10-4. Table 8.10-10. Estimated construction personnel for Phase 2 combined-cycle conversion, page 8.10-12.	Yes	
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing; and	8.10.1.2 Housing and Housing and Housing Availability, Prices and Rentals, page 8.10-2. Table 8.10-3 Housing units and vacancy rate, page 8.10-2.	Yes	

Adequacy Issue: Adequate **x** Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3/3/04

Technical Area: **Socioeconomics**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 03-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A) (vi)	Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes, for the duration of the project construction schedule.	8.10.1.5 Education, page 8.10-7. 8.10.1.6 Public Services, pages 8.10-7 and 8.10-8.	Yes	
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project, including:			
I	The number of workers to be employed each month by craft during construction and operation;	8.10.3.1 Construction Impacts, Construction Workforce, page 8.10-11. Table 8.10-10 Estimated construction personnel for Phase 2 combined-cycle conversion, page 8.10-12. 8.10.2.2 Operational Workforce, page 8.10-9.	Yes	

Adequacy Issue: Adequate **x** Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3/3/04

Technical Area: **Socioeconomics**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 03-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (ii)	An estimate of the number and percentage of workers who will commute daily, commute weekly, or relocate in order to work on the project;	8.12.3.2 Constructi on Phase Impacts, pages 8.12-7 to 8.12- 10. 8.12.3.3 Operation Phase Impacts, pages 8.12-10 to 8.12-11. Data Adequacy Supplement, Socioeconomics Question 2, pages S-30 to 31.	No <u>Yes</u>	Please provide an estimate of the non-local construction workforce that will relocate in order to work on the project.
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	8.10.3.2 Operation al Impacts, Population Impacts, page 8.10-13. 8.10.2.3 Population Impacts, page 8.10-9.	Yes	

Adequacy Issue: Adequate **x** Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3/3/04

Technical Area: **Socioeconomics**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 03-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	8.10.2.4 Housing Impacts, page 8.10-9. 8.10.3.1 Construction Impacts, Housing Impacts, page 8.10-11.	Yes	
Appendix B (g) (7) (B) (v)	The potential impacts, including additional costs, on utilities (gas, water and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operation phases;	8.10.3.2 Operational Impacts, Impacts to Education, page 8.10-14, Impacts to Public Services and Facilities, page 8.10-14, Impacts to Utilities, page 8.10-14. 8.10.3.1 Construction Impacts, Impacts to Education, Impacts to Public Services and Facilities, Impacts to Utilities, pages 8.10-11, 8,10-13.	Yes	
8.1Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	8.10.3.2 Operational Impacts, Impacts to Education, page 8.10-14.	Yes	

Adequacy Issue: Adequate **x** Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3/3/04

Technical Area: **Socioeconomics**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 03-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and an estimate of the total operation payroll;	8.10.3.1 Constructi on Impacts, Impacts to the Economy, page 8.10-11. 8.10.3.2 Operational Impacts, Impacts to the Economy, page 8.10- 13.	Yes	
Appendix B (g) (7) (B) (viii)	An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project; and	8.10.3.1 Constructi on Impacts, Impacts to the Economy, page 8.10-11. 8.10.3.2 Operation al Impacts, Impacts to the Economy, page 8-10-13. Data Adequacy Supplement, Socioeconomics Question 3, page S-31.	No <u>Yes</u>	Please provide an estimate for the operation phase of the project for locally purchased materials. Please provide an estimate of the expenditures for locally purchased materials for the construction and operation phases of the project.

Adequacy Issue: Adequate **x** Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3/3/04

Technical Area: **Socioeconomics**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 03-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost of the project of the potential impacts on tax revenues from construction and operation of the project.	8.10.3.1 Constructi on Impacts, Impacts to the Economy, Fiscal Impacts, page 8.10-13. 8.10.3.2 Operational Impacts, Fiscal Impacts, pages 8.10-14&15.	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.10-11. Laws, ordinances, regulations, and standards applicable to socioeconomics, page 8.10-17.	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Same as above.	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	8.10.9 Permits and Permitting Schedule, page 8.10-18.	Yes	

Adequacy Issue: Adequate **x** Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3/3/04

Technical Area: **Socioeconomics**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 03-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.10-12 Involved agencies and agency contacts, page 8.10-18.	Yes	
Appendix (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	8.10.9 Permits and Permitting Schedule, page 8.10-18.	N/A	

Adequacy Issue: Adequate X Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3.4.04

Technical Area: Soils

Project: Los Esteros Critical Energy Facility 2

Technical Staff: M. Lorraine White

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Richard Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Ch. 2, p. 2-1 to 2-29 Sect. 8.2, p. 8.2-1 to 8.2-3 & 8.2-17 to 8.2-22 Sect. 8.4, p. 8.4-1 to 8.4-4 Sect. 8.11 <u>AFC Supplement, p. S-32, #1</u>	No <u>Yes</u>	Please provide a discussion of the extent of the grading and or excavation/trenching at the site required for development of Phase 2. A topographic map that defines the final grade for Phase 1, delineates the areas to be disturbed for Phase 2, and shows any changes in grade expected for Phase 2 would be preferred. The discussion and map should include adequate offsite features and topography to understand grade and drainage of adjacent lands. Please provide information and details that show erosion and sediment control measures and their location installed for Phase 1 and any changes to these measures for Phase 2. This information should also include any features installed for linear and ancillary facilities. "As built" diagrams for Phase 1 that show Phase 2 details would be preferred.
Appendix B (g) (15) (A)	A map at a scale of 1:24,000 and written description of soil types and all agricultural land uses that will be affected by the proposed project. The description shall include:	Figure 8.11-1	Yes	
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil; and	p. 8.4-1 Table 8.11-1 p. 8.11-3	Yes	
Appendix B (g) (15) (A) (ii)	An identification of other physical and chemical characteristics of the soil necessary to allow an evaluation of soil erodibility, permeability, re-vegetation potential, and cycling of pollutants in the soil-vegetation system.	p. 8.2-1 to 8.2-3 Figure 8.4-1 p. 8.4-1, 8.4-2 & 8.4-4 p.8.11-1 to 8.11-3 Table 8.11-1 <u>AFC Supplement, p. S-32 to 34, #2</u>	No <u>Yes</u>	See above. Please provide all relevant information on contaminated soils encountered during construction of Phase 1 that may be affected by construction work for Phase 2. Please include in this information proposed remediation measures that may need to be taken for Phase 2.

Adequacy Issue: Adequate X Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3.4.04

Technical Area: Soils

Project: Los Esteros Critical Energy Facility 2

Technical Staff: M. Lorraine White

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Richard Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (15) (C)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:	p. 8.2-17 to 8.2-22 p.8.4-5	Yes	
Appendix B (g) (15) (C) (i)	The quantification of accelerated soil loss due to wind and water erosion;	p. 8.11-3 Table 8.11-1	Yes	
Appendix B (g) (15) (C) (iii)	The effect of power plant emissions on surrounding soil-vegetation systems.	p. 8.2-17 to 8.2-22	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.11-2	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 8.11-3	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Sect. 8.11-3	Yes	

Adequacy Issue: Adequate X Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3.4.04

Technical Area: Soils

Project: Los Esteros Critical Energy Facility 2

Technical Staff: M. Lorraine White

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Richard Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.11-3	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	p. 8.11-8	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒ **DATA ADEQUACY WORKSHEET** Revision No. 1 Date 3/9/04
 Technical Area: **Transmission System Engineering.** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Mark Hesters
 Project Manager: Bob Worl Docket: 03-AFC-2 Technical Senior: Al McCuen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2) (A)	A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels.	Page 2-9 Page 5-1	Yes	
Appendix B (i) (2) (B)	A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity.	Pages 5-1 and 5-2	Yes	

Adequacy Issue: Adequate **X** Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 1 Date 3/9/04

Technical Area: **Transmission System Engineering.** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Mark Hesters

Project Manager: Bob Worl Docket: 03-AFC-2 Technical Senior: Al McCuen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators. This description shall include power load flow diagrams which demonstrate conformance or nonconformance with utility reliability and planning criteria at the time the facility is expected to be placed in operation and five years thereafter; and	Page 5-1 to 5-5 Appendix 5 <u>AFC Supplement</u> <u>(Preliminary</u> <u>Interconnection Assess.)</u>	No Yes	<p>Phase 2: Provide a transmission line route map or sketch that includes line rights of way.</p> <p>Provide a System Impact Study which will demonstrate conformance or non-conformance with NERC/WSCC, California Independent System Operator (Cal ISO) and utility reliability and planning criteria with the following provisions:</p> <p>a. Identify major assumptions in the base cases including imports and exports to the system, major generation including hydro, load changes in the system and queue generation.</p> <p>b. Analyze system for Power Flow for N-0, important N-1 and critical N-2 contingency conditions, and provide a list of overload criteria violations.</p> <p>c. Analyze system for Transient Stability and Post-transient voltage conditions under critical N-1 and N-2 contingencies, and provide related plots, switching data and a list of voltage criteria violations.</p> <p>d. Provide a Short Circuit Study Report showing fault currents at important substation buses with and without the new generation and respective breaker interrupting ratings side by side (optional, data request will follow).</p> <p>e. Identify the reliability and planning criteria utilized to determine the criteria violation.</p> <p>f. Provide a list of contingencies evaluated for each study.</p> <p>g. List mitigation measures considered (required) and those selected for all criteria violations (optional, data request will follow).</p> <p>h. Provide power flow diagrams (MVA, % loading & P, U, voltage) for base cases with and without the project. Power flow diagrams must also be provided for all N-0, N-1 and N-2 studies where overloads or voltage violations occur.</p> <p>Provide electronic copies of *.sav and *.drw GE PSLF and EPCL contingency and comparison files (if available).</p>

Adequacy Issue: Adequate **X** Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 1 Date 3/9/04
 Technical Area: **Transmission System Engineering.** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Mark Hesters
 Project Manager: Bob Worl Docket: 03-AFC-2 Technical Senior: Al McCuen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints.	Pages 5-1 and 5-2	Yes	
Appendix B (g) (18) (A)	The locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project.	Page 5-1	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Page 5-2 Page 5-9 <u>Supplement Page S-7</u>	No <u>Yes</u>	Phase 2: Please provide a statement that the project will comply with applicable laws, ordinances, regulations and standards.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Page 5-2 Page 5-9 <u>Supplement Page S-7</u>	No <u>Yes</u>	Phase 2: Please provide a statement that the project will comply with applicable laws, ordinances, regulations and standards.
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Page 5-5 Page 5-9 <u>Supplement Page S-7</u>	No <u>Yes</u>	Phase 2: Please indicate when CA ISO and Silicon Valley Power approval letters are expected.

Adequacy Issue: Adequate **X** Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3.4.04

Technical Area: **Water Resources**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: M. Lorraine White

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Richard Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Ch. 2, p. 2-1 to 2-29 Ch. 7, p. 7-1 to 7-4 <u>AFC Supplement, p. S-36, #1</u>	No <u>Yes</u>	Please provide "as-built" information on all mitigation measures implemented for Phase 1 that ensure compliance with all discharge water quality requirements, groundwater protection and ensure no on- or offsite flooding. Please provide all actual monitoring reports for Phase 1. Please provide specific information on all proposed monitoring plans (waste discharge, storm water, etc...) for Phase 2.
Appendix B (g) (14) (A)	All information required by the Regional Water Quality Control Board in the region where the project will be located to apply for:			
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; and	p. 8.15-7 & 8.15-8 Table 8.15-2 p. 8.15-13 & 8.15-14 <u>AFC Supplement, p. S-36, #2</u>	No <u>Yes</u>	Please provide copies of all approved permits or agreements for industrial waste water discharges for Phase 1. Please also provide specific information regarding changes to these permits or approvals necessary to support Phase 2. This information should include all supporting data, analysis, calculations and assumptions.
Appendix B (g) (14) (A) (ii)	a National Pollutant Discharge Elimination System Permit.	p. 8.15-8 and 8.15-14 to 8.15-15 Appendix 7b, 7c, 7d <u>AFC Supplement, p. S-37, #3</u>	No <u>Yes</u>	Please provide copies of all approved permits related to storm water discharges to Coyote Creek. This information should include diagrams of all as-built and proposed structures and reports demonstrating compliance with specified requirements.
Appendix B (g) (14) (B)	A description of the hydrologic setting of the project. The information shall describe, in writing and on maps at a scale of 1:24,000, the chemical and physical characteristics of the following water bodies that may be affected by the proposed project:	Figure 8.15-1, 8.15-2		

Adequacy Issue: Adequate **X** Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3.4.04

Technical Area: **Water Resources**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: M. Lorraine White

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Richard Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	p. 8.15-1 to 8.15-5 <u>AFC Supplement, Table 8.15-S1</u>	No <u>Yes</u>	Please provide a table that specifies the chemical quality (constituent concentrations) of the shallow aquifer underlying the project site
Appendix B (g) (14) (B) (ii)	Surface water bodies; and	Figure 8.15-3 p. 8.15-5 <u>AFC Supplement, p. S-38, #5</u>	No <u>Yes</u>	Please provide specific quality, flow and volume information for Coyote Creek at the location affected by the project.
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones.	Figure 8.15-3 p. 8.15-5 & 8.15-6	Yes	
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:	p. 2-2 to 2-27 Ch. 7 p. 8.15-6 to 8.15-18		
Appendix B (g) (14) (C) (i)	Source of the water and the rationale for its selection, and if fresh water is to be used for power plant cooling purposes, a discussion of all other potential sources and an explanation why these sources were not feasible;	Appendix 7-A <u>AFC Supplement, p. S-39, #6</u>	No <u>Yes</u>	Please provide a copy of all executed water service agreement(s) for Phase 1. This information should include information on potable water suppliers to Phase 1.
Appendix B (g) (14) (C) (ii)	The physical and chemical characteristics of the source and discharge water;	Table 8.15-2 and 8.15-3 <u>AFC Supplement, p. S-39, #8</u>	No <u>Yes</u>	Please provide actual, not estimated, physical and chemical data for source and discharge water for Phase 1. This information should include copies of any reports filed as required by applicable permits or approvals. Please include in this information any sampling results for storm water discharges to Coyote Creek.
Appendix B (g) (14) (C) (iii)	Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project; and	Ch. 7 <u>AFC Supplement, p. S-39, #8</u>	No <u>Yes</u>	Please provide actual, not estimated, data on average and maximum daily and annual water demand and waste water discharge for operation of Phase 1.

Adequacy Issue: Adequate X Inadequate X

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3.4.04

Technical Area: Water Resources

Project: Los Esteros Critical Energy Facility 2

Technical Staff: M. Lorraine White

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Richard Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (C) (iv)	A description of all facilities to be used in water conveyance, treatment, and discharge. Include a water mass balance diagram.	Figure 2.3-5a & b Figure 2.4-5a & b <u>Phase 1 compliance docket</u> <u>AFC Supplement, p. S-40,</u> <u>#9</u>	No <u>Yes</u>	Please provide detailed information on all "as-built" features and facilities used in the conveyance, treatment and discharge of water for Phase 1. Include in this as-built information for the discharge structures in Coyote Creek and specific description of required changes for relocating this outfall. Please clarify if there are one or two recycled water supply lines and, if there are two, why.
Appendix B (g) (14) (D)	A description of pre-, and post-construction runoff and drainage patterns, including:	Appendix 7b, 7c, 7d <u>AFC Supplement, Figure</u> <u>8.15-S1</u>	No <u>Yes</u>	Please provide adequate information on drainage patterns adjacent to the site, including features that may direct flows towards or away from the site. Please provide a diagram of the pre- and post-construction runoff and drainage information for the laydown area.
Appendix B (g) (14) (D) (i)	Precipitation and storm runoff patterns; and	p. 8.15-1 to 8.15-2 Table 8.15-1 <u>AFC Supplement, Table</u> <u>8.15-S3</u>	No <u>Yes</u>	Please provide flow and volume information for Coyote Creek during storm events.
Appendix B (g) (14) (D) (ii)	Drainage facilities and design criteria.	p. 8.15-5 & 8.15-6 p. 8.15-8 p. 8.15-14 & 8.15-15 <u>AFC Supplement, p. S-37</u> <u>#3</u>	No <u>Yes</u>	Please provide detailed information on all "as-built" features and facilities for Phase 1. Include in this information discussions and diagrams of changes required to these features and facilities to accommodate Phase 2. Please provide construction details, permit application information and permit or approval requirements/ criteria for the storm water outfall(s) in Coyote Creek.
Appendix B (g) (14) (E)	An assessment of the effects of the proposed project on water resources. This discussion shall include:	Sect. 8.15.2, 8.15.3 & 8.15.5		

Adequacy Issue: Adequate **X** Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3.4.04

Technical Area: **Water Resources**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: M. Lorraine White

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Richard Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source;	p.8.157 & 8.15-11 to 8.15-13 <u>AFC Supplement, p. S-41 and Attachment 8.15-S5</u>	No <u>Yes</u>	Please provide an assessment of the project's (as a whole) water demand impacts on other users of the recycled water product.
Appendix B (g) (14) (E) (ii)	The effects of construction activities and plant operation on water quality; and	p. 8.15-7 to 8.15-15 <u>AFC Supplement, responses provided for above.</u>	No <u>Yes</u>	Please provide an assessment of the performance of all practices implemented for Phase 1 to protect water quality (construction and operation). This information should include measures taken to remediate contaminated soils or water, best management practices for storm water management and any pretreatment or management practices for meeting waste water discharge requirements. Please provide an assessment of potential effects to groundwater quality that could result from construction and operation of the project (both Phase 1 and 2). This information should include a description of all best management practices implemented to protect soil and water resources from contaminants used in construction and operation. Please provide an assessment of the impacts of the proposed project's waste water discharge on the South Bay Water Recycling programs recycled water product and other users of the recycled water. Please distinguish between changes in quality caused by Phase 1 versus Phase 2 and project as a whole.
Appendix B (g) (14) (iii)	The effects of the project on the 100-year flood plain or other water inundation zones.	8.15-14 & 8.15-15	Yes	

Adequacy Issue: Adequate X Inadequate X

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3.4.04

Technical Area: Water Resources

Project: Los Esteros Critical Energy Facility 2

Technical Staff: M. Lorraine White

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Richard Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.15-4 <u>AFC Supplement, p. S-43, #18</u>	No <u>Yes</u>	Please provide all specified information for applicable LORS, permits and approvals required and obtained for Phase 1. Other agencies involved in the permitting of the storm water outfall include the US Army Corps and Department of Fish and Game.
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 8.15-7 <u>AFC Supplement, p. S-44, #19</u>	No <u>Yes</u>	Please provide all specified information for applicable LORS, permits and approvals required and obtained for Phase 1. Other agencies involved in the permitting of the storm water outfall include the US Army Corps and Department of Fish and Game.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Table 8.15-4 p. 8.15-18 to 8.15-23 <u>AFC Supplement, p. S-42, S-43, #17</u>	No <u>Yes</u>	Please provide copies of all executed wastewater or storm water discharge permits and agreements for Phase 1. Please provide reports, operational data, "as built" features, or analysis related to Phase 1 that discuss or demonstrate conformance with requirements specified in these permits and or agreements. Please provide a discussion of the proposed project's conformity with the Commission's policy on the implementation of ZLD systems at power plants (Integrated Energy Policy Report, CEC, 2003, p. 36). Please provide a description of specific changes or modifications that will be required to permits or agreement for Phase 1 to accommodate Phase 2.

Adequacy Issue: Adequate **X** Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 3.4.04

Technical Area: **Water Resources**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: M. Lorraine White

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Richard Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.15-7 <u>AFC Supplement, p S-43, #18</u>	No <u>Yes</u>	Please confirm that persons listed in this table are appropriate contacts for both Phase 1 and Phase 2. Please add contacts for the US Army Corps and Department of Fish and Game.
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 8.15-7 <u>AFC Supplement, p. S-37, #3, and S-44, #19.</u>	No <u>Yes</u>	Please provide information regarding dates of application and permit issuance or approvals for Phase 1. Include in this information any revisions or modifications that may be required to these permits or approvals as a result of Phase 2.

Adequacy Issue: Adequate **X** Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 1 Date 3/2/2004
 Technical Area: **Worker Safety** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Geoff Lesh
 Project Manager: Robert Worl Docket: 03-AFC-02a Technical Senior: Rick Tyler

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 8.16, Table 8.16-1, Table 8.16-2	Yes	
Appendix B (g) (11) (A)	A description of the safety training programs which will be required for construction and operation personnel.	Section 8.16.4, Table 8.16-3, Table 8.16-4	Yes	
Appendix B (g) (11) (B)	A complete description of the fuel handling system and the fire suppression system.	Sections 8.16.5, 2.3.3, 2.6.2, <u>2.6.2.1, 6.0, Figures 2.4-1, 2.4-3</u>	No Yes	Need descriptions of fuel handling and fire systems, incl: water sources, volumes and rates for Phase 1 & 2.
Appendix B (g) (11) (C)	Provide draft outlines of the Construction Health and Safety Program and the Operation Health and Safety Program, as follows:	Section 8.16.31, 8.16.32	Yes	
	Construction Health and Safety Program: * Injury and Illness Prevention Plan (8 Cal. Code Regs., § 1509);		Yes	
	* Fire Protection and Prevention Plan (8 Cal. Code Regs., § 1920);		Yes	
	* Personal Protective Equipment Program (8 Cal. Code Regs., §§ 1514-1522)		Yes	
	Operation Health and Safety Program: * Injury and Illness Prevention Program (8 Cal. Code Regs., § 3203);		Yes	
	* Fire Prevention Plan (8 Cal. Code Regs., § 3221);		Yes	
	* Emergency Action Plan (8 Cal. Code Regs., § 3220);		Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒ **DATA ADEQUACY WORKSHEET** Revision No. 1 Date 3/2/2004
 Technical Area: Worker Safety Project: Los Esteros Critical Energy Facility 2 Technical Staff: Geoff Lesh
 Project Manager: Robert Worl Docket: 03-AFC-02a Technical Senior: Rick Tyler

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
	* Personal Protective Equipment Program (8 Cal. Code Regs., §§ 3401-3411).		Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.16-5, Table 8.16-6, Table 8.16-7, Table 8.16-8,	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 8.16-9	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 8.16	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.16-8	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 8.16.9	Yes	